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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/008,503	11/08/2001	Neal G. Skinner	•	990477U1USA	5371	
20558	7590 08/20/200	3				
KONNEKE				EXAMINER		
660 NORTH SUITE 230	CENTRAL EXPRES	SWAY ,	,	TURNER, SAMUEL A		
PLANO, TX	75074				1122	
,				ART UNIT	PAPER NUMBER	
	•			2877		
•				DATE MAILED: 08/20/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>					
	Application No.	Applicant(s)					
r	10/008,503	SKINNER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Samuel A. Turner	2877					
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with	th correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a rep y within the statutory minimum of thirty will apply and will expire SIX (6) MONT o, cause the application to become ABA	ly be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on	·						
2a) ☐ This action is FINAL. 2b) ☑ The	nis action is non-final.						
3) Since this application is in condition for allow closed in accordance with the practice under							
Disposition of Claims  4) M. Claim(a) 1.25 is/ore pending in the application							
<ul> <li>4)  Claim(s) 1-25 is/are pending in the application</li> <li>4a) Of the above claim(s) is/are withdra</li> </ul>							
5) Claim(s) 1-9 is/are allowed.	WIT ITOM CONSIDERATION.						
6)⊠ Claim(s) <u>10-25</u> is/are rejected.	_						
7) Claim(s) is/are objected to.	· · · · · · · · · · · · · · · · · · ·						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on <u>11 August 2001</u> is/are:	a)⊠ accepted or b)☐ objecte	d to by the Examiner.					
Applicant may not request that any objection to the							
11)☐ The proposed drawing correction filed on	_ is: a)□ approved b)□ dis	sapproved by the Examiner.					
If approved, corrected drawings are required in re	•						
12) ☐ The oath or declaration is objected to by the Ex	caminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)⊠ All b)⊡ Some * c)⊡ None of:							
1. Certified copies of the priority document							
2. Certified copies of the priority document	·						
<ul><li>3. Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list</li></ul>	reau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. §	119(e) (to a provisional application)	١.				
<ul> <li>a)  The translation of the foreign language prediction</li> <li>15) Acknowledgment is made of a claim for domes</li> </ul>							
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s) _</li> </ol>	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)					
S. Patent and Trademark Office							

'Application/Control Number: 10/008,503

Art Unit: 2877

#### **DETAILED ACTION**

### Rejections Under 35 U.S.C. § 102

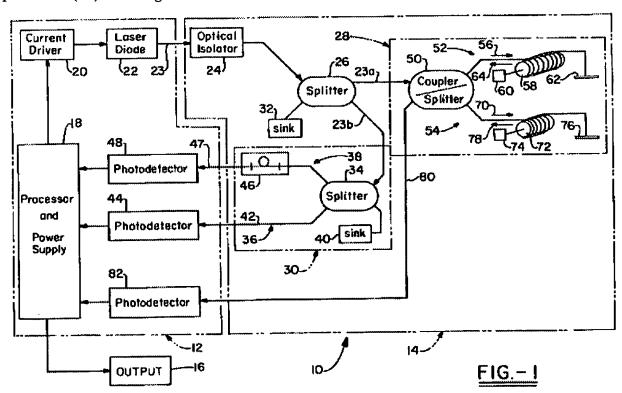
The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

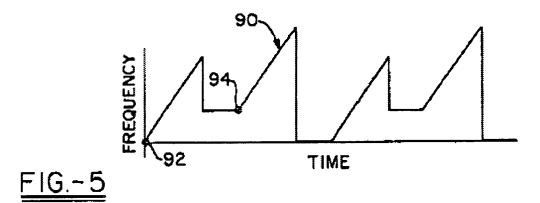
Claims 10-16, and 18-24 are rejected under 35 U.S.C. § 102(b) as being clearly anticipated by Brooker(5,798,834).

Brooker teaches an interferometric fiber sensor comprising a laser diode(22) with a current driver(20) which produces both a variable and constant frequency(see figure 5), Michelson fiber interferometer(28), photodetector(82), and processor(18). See figure 1.



Application/Control Number: 10/008,503

Art Unit: 2877



### Rejections Under 35 U.S.C. § 103

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. § 103(c) and potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103(a).

Claims 17 and 25 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Brooker(5,798,834).

'Application/Control Number: 10/008,503

Art Unit: 2877

Official notice is taken that fiber sensors arrays are well known in the art for measuring a plurality of locations along the array. See <u>In re Malcolm</u>, 1942 C.D 589; 543 O.G. 440.

While Brooker fails to teach an array of fiber sensors it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a plurality of sensors forming a fiber array to measure one or more parameters along the fiber array.

## Allowable Subject Matter

Claims 1-9 are allowed. The prior art of record fails to teach the combination of providing an interferometric fiber sensor, connecting a variable wavelength source, and the two steps of measuring found in claim 1.

Art Unit: 2877

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel A. Turner those telephone number is **(703) 308-4803**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font, can be reached on (703) 308-4881.

The fax phone number for this Group is (703) 308-7722. The faxing of papers related to this application must conform with the notice published in the Official Gazette, 1096 O.G. 30 (15 November 1989). The Group receptionist telephone number is (703) 308-0956.

Any inquiry of a technical nature regarding reissues, petitions, and terminal disclaimers should be directed to Hien Phan whose telephone number is (703) 308-7502, or Ed Westin whose telephone number is (703) 308-4823.

Any other inquiry of a technical nature, and all inquiries of a general nature including those relating to the status of this application or any patent term adjustment should be directed to TC2800 Customer Service Office whose telephone number is (703) 306-3329.

Samuel A. Turner Primary Examiner

Art Unit 2877

SAT 8/7/03